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How climate change skeptical leaders may “Trump” supporters’ pro-environmental engagement

Steph Johnson Zawadzki*, Thijs Bouman, Linda Steg, and Perri B. Druen

Background

The scientific consensus is that anthropogenic climate change is real and needs to be addressed urgently^{1,2}. Countries all over the world have committed to climate change mitigation (e.g., the Paris Climate Agreement³). Yet, recent elections in various countries saw climate skeptics rise to prominence⁴.

We aim to explore how climate change engagement may be impacted when climate skeptical leaders are elected and implement policies that contribute to climate change.

Method

Design: questionnaires at 3 time points; independent samples

Timing:

- **T1:** 1 day before US presidential election (N=423)
- **T2:** 20 days after Trump’s inauguration (N=427)
- **T3:** 100 days after Trump’s inauguration (N=432)

Sample: US population recruited via MTURK

Measures: indicators of climate change engagement and support for presidential candidates

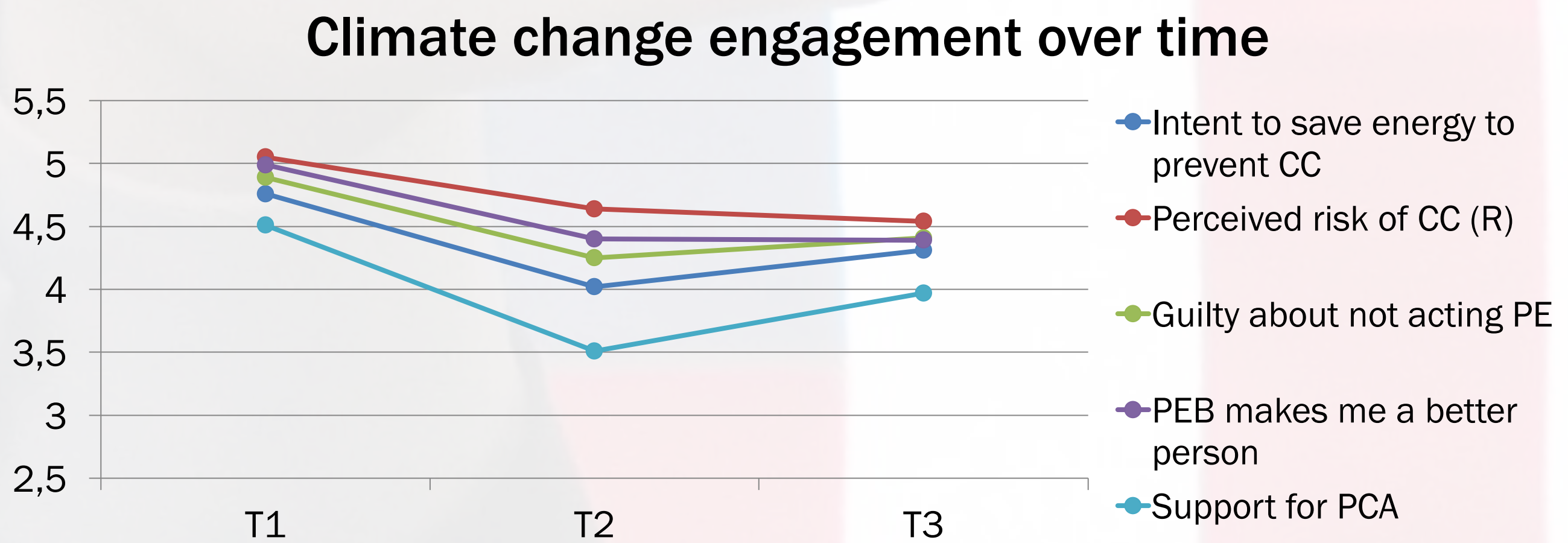
- **Beliefs:** ‘To what extent do you think the world’s climate is changing?’ (1 = Definitely not, 7 = Definitely); ‘To what extent do you think that climate change is caused by human activity? (e.g., CO2 emissions, burning of fossil fuels)’ (1 = Not at all, 7 = Completely)
- **Perceived risk:** ‘How bad or good do you think the potential impact of climate change will be on people across the world?’ (1 = Very bad, 7 = Very good; R)
- **Emotional engagement:** e.g., ‘I would feel guilty if I did not act in an environmentally-friendly manner,’ (1 = Strongly disagree, 7 = Strongly agree)
- **Behavioral intentions:** ‘To what extent are you willing to save energy for the sake of reducing climate change?’ (1 = Not at all, 7 = Completely)
- **Policy preferences:** ‘Do you think the United States should abide by the provisions of the Paris Climate Agreement?’ (1 = Definitely not, 7 = Definitely)
- **Support for major party candidates:** two single items, ‘What is your impression of [Donald Trump / Hillary Clinton]?’ (1 = Very negative, 7 = Very positive). Support for [Trump/Clinton] operationalized as above midpoint (> 4); ‘Neither’ group operationalized as midpoint or below (<= 4) for both candidates

N’s of support for the presidential candidates, split by wave

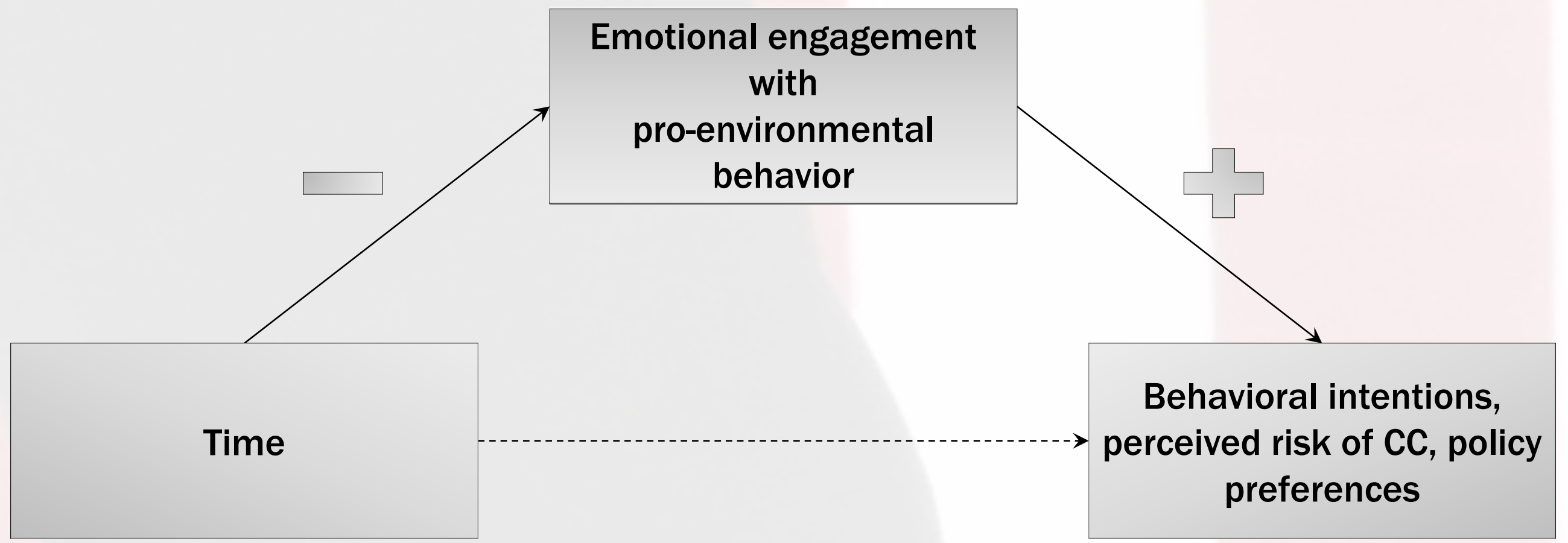
	T1		T2		T3	
	N	%	N	%	N	%
Trump	108	24%	116	27%	110	25%
Clinton	132	29%	150	34%	141	32%
Neither	183	41%	161	37%	181	41%

Results

Trump supporters’ behavioral intentions, perceived risks, emotional engagement, and policy preferences lower than prior to presidential election (ps < .05). Beliefs in climate change stable (ps > .13).



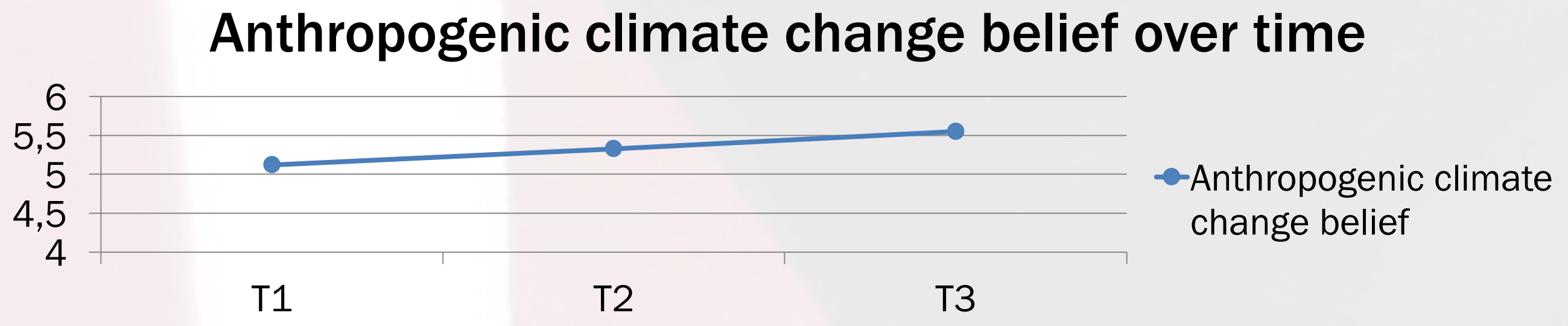
Emotional engagement with pro-environmental behavior mediates⁵ the relations between time and behavioral intentions, perceived risk of climate change, and policy preferences among Trump supporters.



	Time → Feelings			Feelings → Outcome			Indirect effects			
	B	se	p	B	se	p	B	se	boot LCI	boot UCI
Behavioral intentions	-0.40	0.14	0.004	0.76	0.06	<0.001	-0.30	0.10	-0.52	-0.11
Perceived risk of CC	-0.41	0.13	0.002	0.24	0.05	<0.001	-0.10	0.04	-0.18	-0.04
Policy preferences	-0.49	0.16	0.002	0.64	0.07	<0.001	-0.31	0.10	-0.53	-0.12

Clinton supporters showed no changes over time.

People who support neither Trump nor Clinton showed a significant increase in anthropogenic climate change beliefs, and similar trends toward increased climate change engagement for other target measures, but ns.



Discussion

Trump supporters showed a decrease in their climate change engagement over time. These changes were partially explained by their reduced emotional engagement with pro-environmental behavior. This is consistent with multiple social psychological theories, like heuristic-based decision-making⁶, evaluating risks as feelings^{7,8}, and the Elaboration Likelihood Model⁹. Our findings suggest that climate skeptical leaders may impact supporters’ engagement with climate change by changing their feelings about pro-environmental behaviors.